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Methods and Products Related to Metabolic Interactions in Disease Date: March 17, 2004 Docket No.: V0139.70060US01 Express Mail Label No: EV292460726US

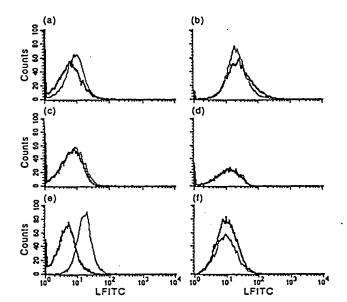


FIGURE 1A

Interactions in Disease

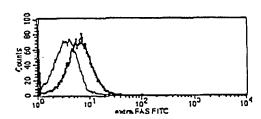
Date: March 17, 2004 Docket No.: V0139.70060US01

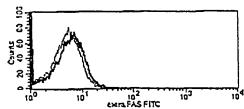
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L1 21 0/0

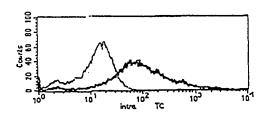
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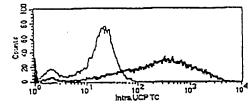
Surface FAS Expression



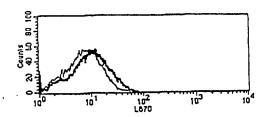


UCP Expression





Bcl-2 Expression



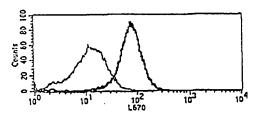
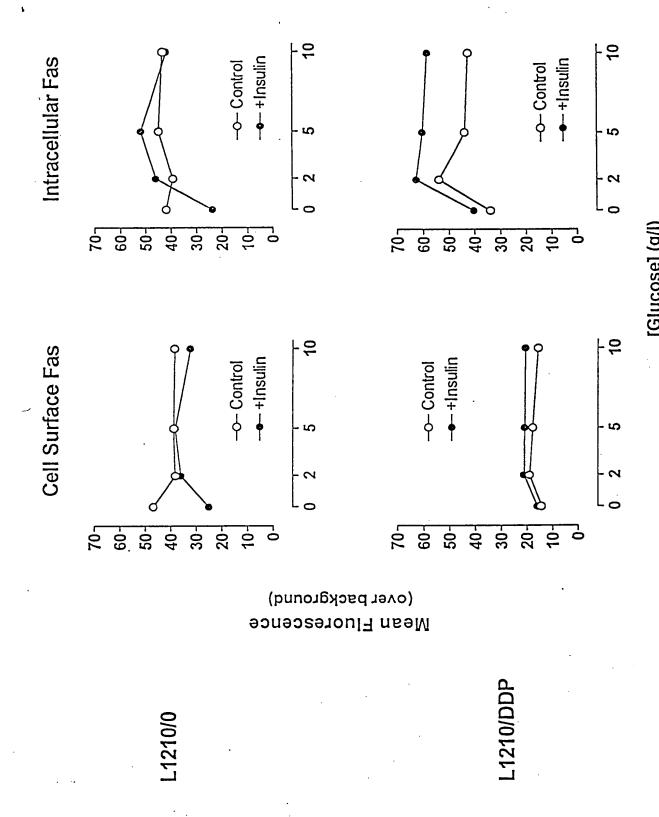


FIGURE 1B

Methods and Products Related to Metabolic Interactions in Disease Date: March 17, 2004

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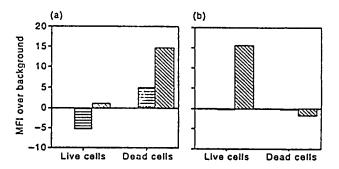


FIGURE 3

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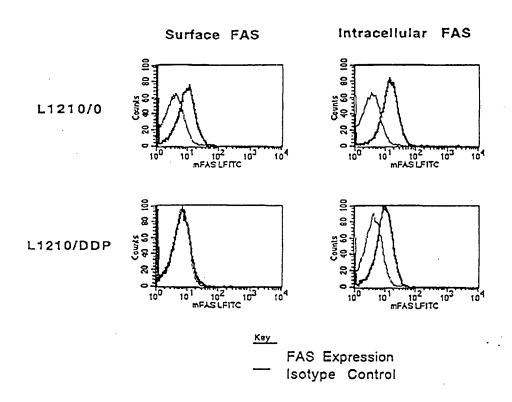


FIGURE 4

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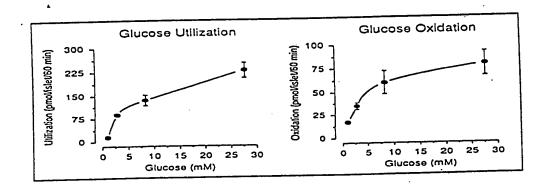
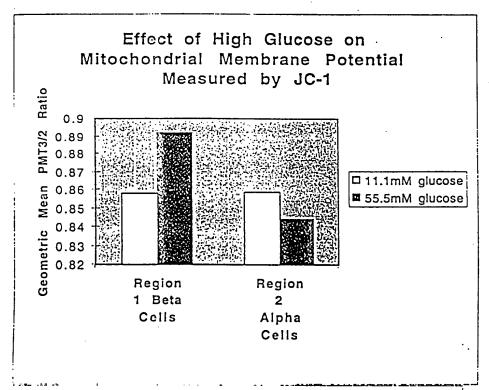
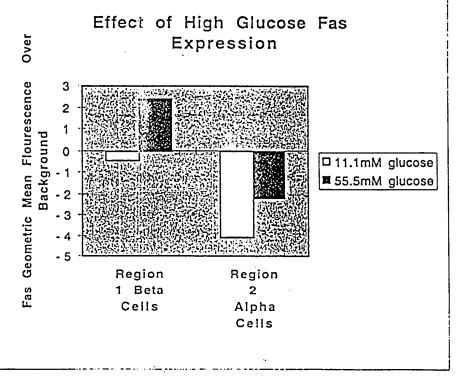


FIGURE 5

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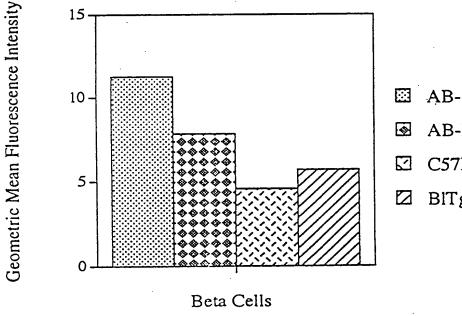




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Mitochondrial Membrane Potential (Measured by Mitotracker Red)



AB-Ea

☐ BlTgEa

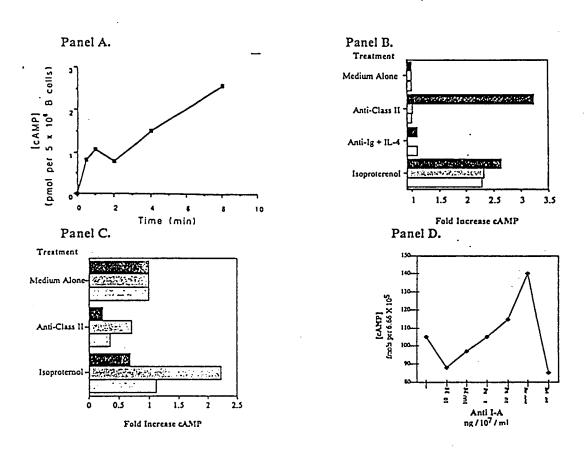
FIGURE 7

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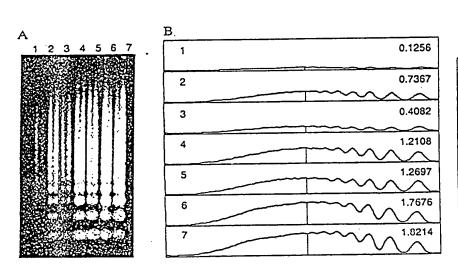
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# MHC class II mediated increases in cAMP are isotype and dimerization/oligomerization state dependent



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# MHC class II induces apoptotic cell death



Lane	Treatment	Normalized Area	Apoptotic Index
1	Medium Alone	0.0711	0.0000
2	17/227	0.4168	0.3722
3	14-4-4S	0.2309	0.1721
4	10-2.16	0.6850	0.6609
5	H116-32	0.7183	0.6968
6	Isoproterenol	1.0000	1.0000
7	dbcAMP	1.0304	1.0328

Interactions in Disease

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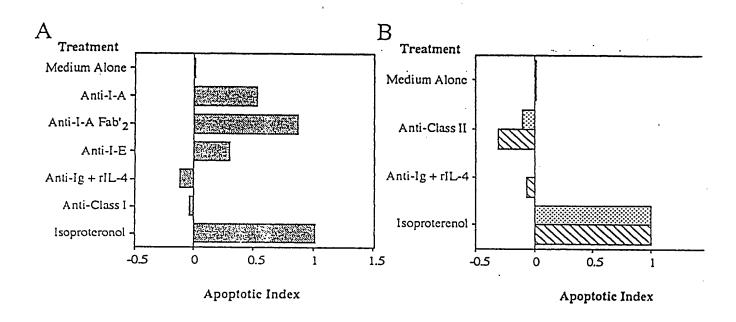
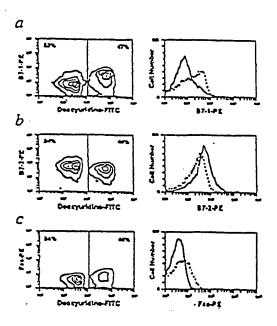


FIGURE 10

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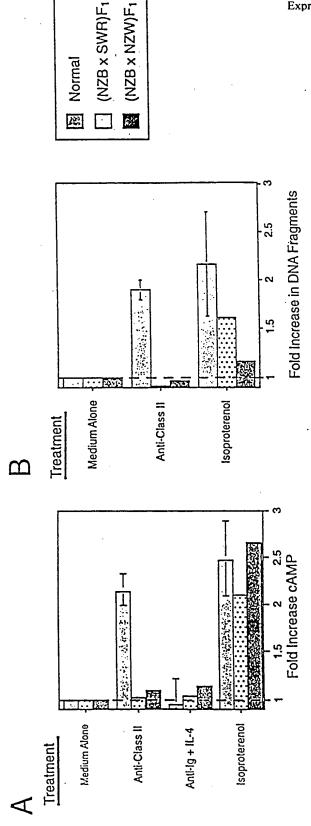
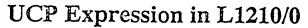


FIGURE 12

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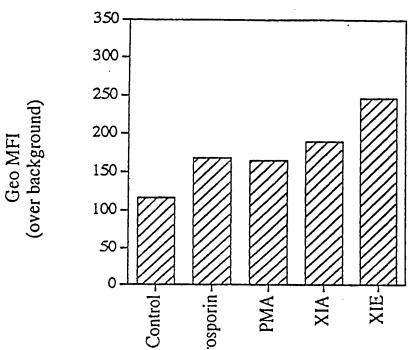


FIGURE 13A

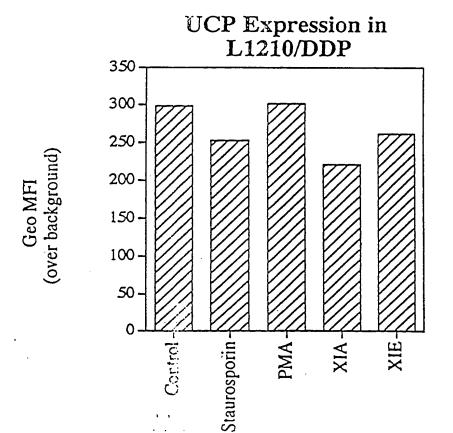


FIGURE 13B

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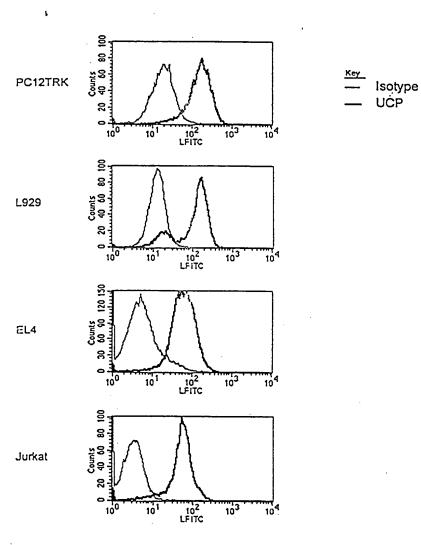


FIGURE 14

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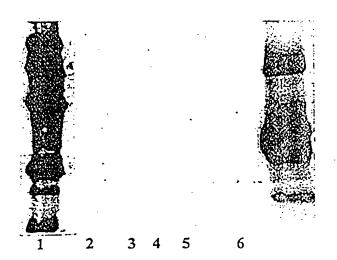


FIGURE 15

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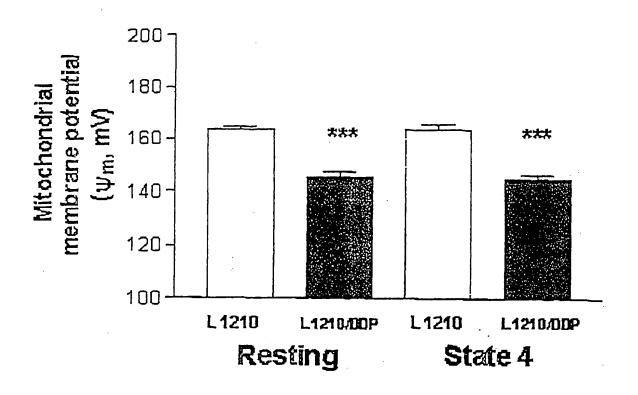


FIGURE 16

Cell Surface Fas (CD05) Expression on Non-permeabilized B16 Melanoma Cells

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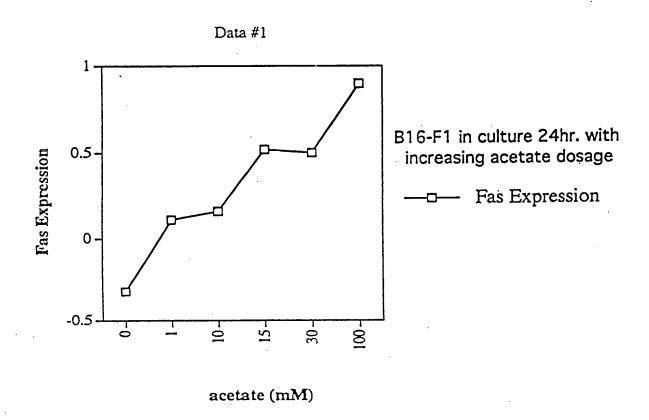
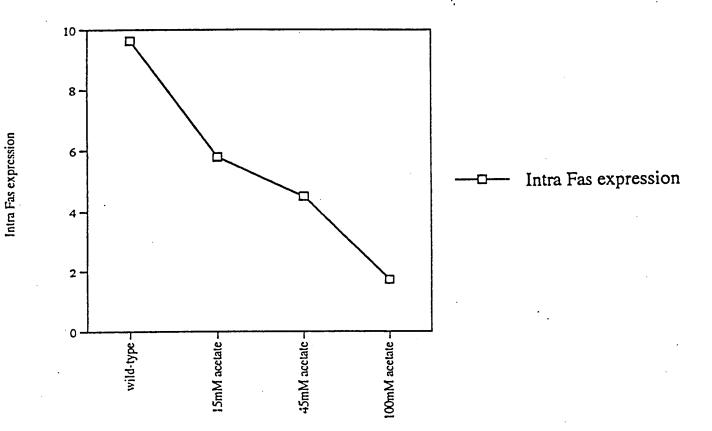


FIGURE 17A

Methods and Products Related to Metabolic Interactions in Disease
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# Fas (CD95) Expression on permeabilized B16 Melanoma Cells

#### Intra Fas/FasL Data

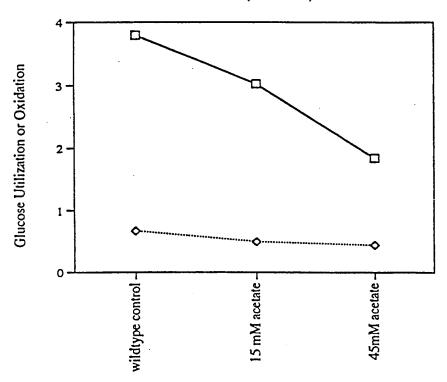


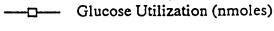
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In Culture 24h (11/24/98)





Glucose Oxidation (nmoles)

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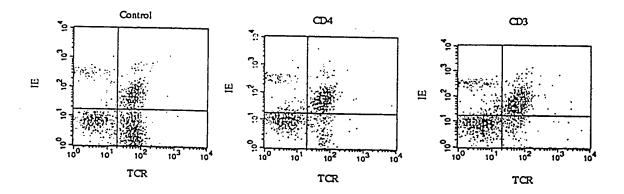


FIGURE 19

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CD4+CD3 CD28 CD3 CD4 No treatment

FIGURE 20

Interactions in Disease

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pmol oleate/90 mins/50,000 cells

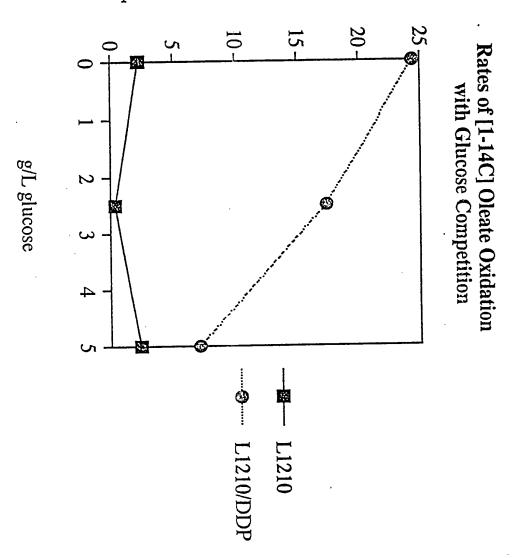
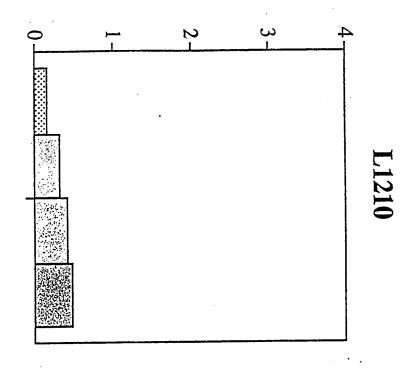


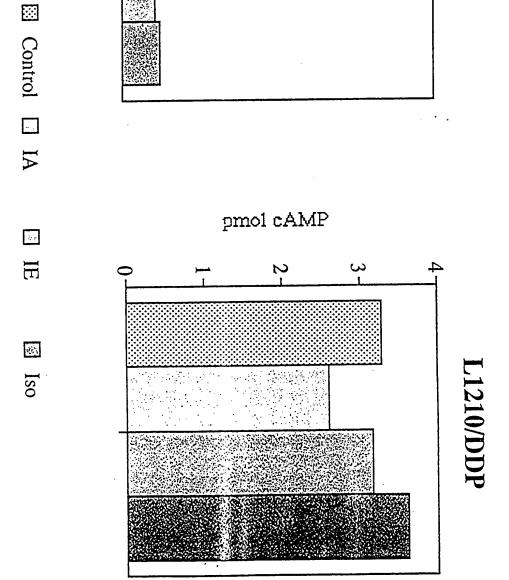
FIGURE 21

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pmol cAMP

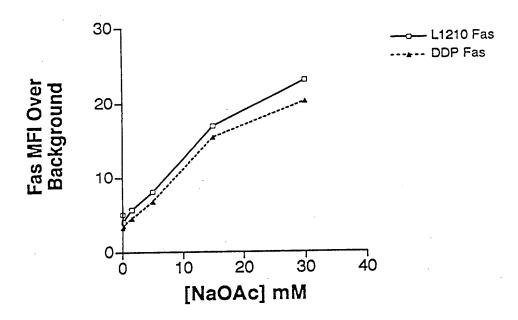




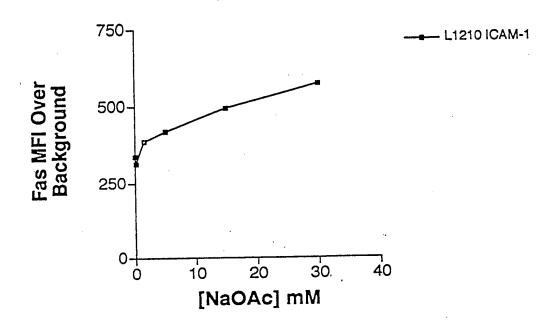
Interactions in Disease
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Express Mail Label No: EV292460726US

### Induction of Fas Expression by Sodium Acetate



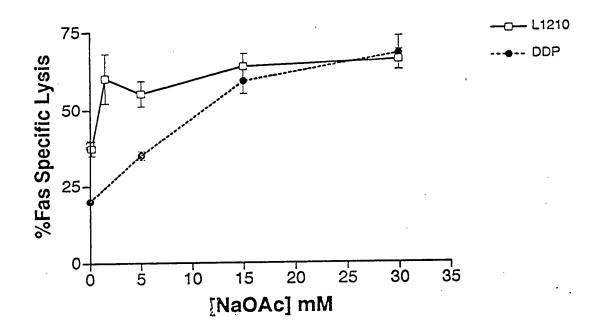
## Induction of ICAM-1 Expression by Sodium Acetate



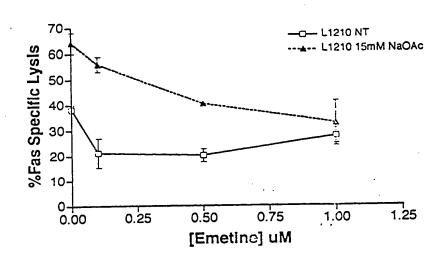
Methods and Products Related to Metabolic Interactions in Disease Date: March 17, 2004

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### Induction of Fas Functional to Signal Cells to Die by Sodium Acetate



# Inhibition of Functional Fas Expression Induced by Sodium Acetate by Emetine



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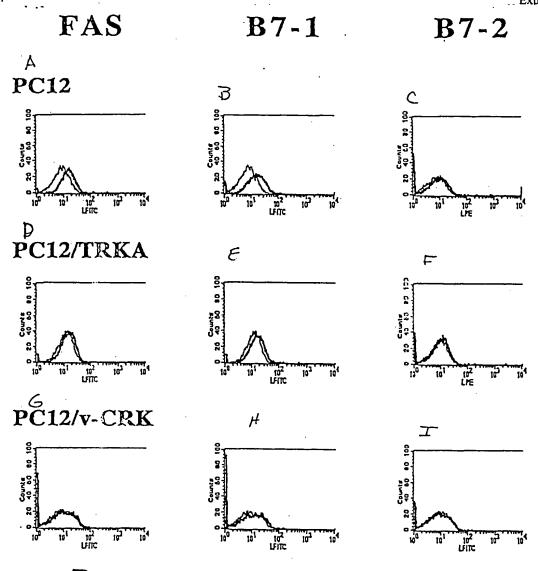


Figure Histograms depicting the constitutive expression or lack thereof of the cell surface molecules Fas, B7.1, and B7.2 on PC12 cells and their variants Trk and v-Crk.